

Title (en)

CYLINDER LENS ARRAY AND PROJECTION SYSTEM EMPLOYING THE SAME

Title (de)

ZYLINDERLINSENARRAY UND PROJEKTIONSSYSTEM UNTER VERWENDUNG DAVON

Title (fr)

RESEAU DE LENTILLES CYLINDRIQUES ET SYSTEME DE PROJECTION UTILISANT CE RESEAU

Publication

**EP 1518138 A1 20050330 (EN)**

Application

**EP 03725842 A 20030523**

Priority

- KR 0301018 W 20030523
- KR 20020036851 A 20020628

Abstract (en)

[origin: WO2004003629A1] A cylinder lens array and a projection system adopting the same are provided. The cylinder lens array is installed on a path of a light beam emitted from a light source and is comprised of lens cells. The lens cells are arrayed with their central axes inclined at different angles, so that the light beam which diverges symmetrically with respect to its optical axis is aligned so as to reduce the angle of the divergence in a certain direction. The cylinder lens array is applicable to both single-panel projection systems and three-panel projection systems. In particular, when the cylinder lens array is applied to projection systems adopting a scrolling method, the effects of light alignment are maximized. Thus, etendue decreases, and light efficiency increases.

IPC 1-7

**G02B 27/18**

IPC 8 full level

**G02B 3/00** (2006.01); **G02B 3/06** (2006.01); **G02B 17/06** (2006.01); **G02B 27/10** (2006.01); **G02B 27/18** (2006.01); **G03B 21/00** (2006.01)

CPC (source: EP KR US)

**G02B 3/0037** (2013.01 - EP US); **G02B 3/06** (2013.01 - EP US); **G02B 17/061** (2013.01 - EP US); **G02B 27/102** (2013.01 - EP US); **G02B 27/1033** (2013.01 - EP US); **G02B 27/145** (2013.01 - EP US); **G02B 27/18** (2013.01 - KR); **G02B 3/0043** (2013.01 - EP US); **G02B 3/0062** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**WO 2004003629 A1 20040108**; AU 2003228115 A1 20040119; CN 1329764 C 20070801; CN 1666134 A 20050907; EP 1518138 A1 20050330; EP 1518138 A4 20060719; JP 2005531806 A 20051020; KR 20040001593 A 20040107; US 2006044799 A1 20060302

DOCDB simple family (application)

**KR 0301018 W 20030523**; AU 2003228115 A 20030523; CN 03815332 A 20030523; EP 03725842 A 20030523; JP 2004517363 A 20030523; KR 20020036851 A 20020628; US 51954705 A 20050809